



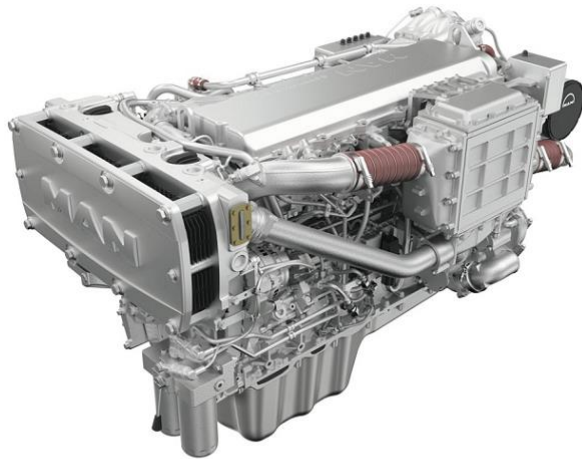
Technical data sheet

Marine diesel engine
D2676LE484

04.07.2022
(Version 1)

Performance data ¹

| | | |
|-------------------------|-----------|-------|
| Rated power | 290 | kW |
| Rated power | 394 | PS |
| Speed | 1800 | rpm |
| Bore/Stroke | 126/166 | mm |
| Displacement | 12,42 | liter |
| Rated torque | 1538 | Nm |
| Maximum torque | 1735 | Nm |
| at speed | 1200-1600 | rpm |
| Compression ratio [ε] | 18,0 | :1 |
| Mean effective pressure | 15,57 | bar |
| Mean piston speed | 9,96 | m/s |



Consumption data ²

| | | |
|--|-----|-------|
| Specific fuel consumption ¹ | 208 | g/kWh |
| Absolute fuel consumption ¹ | 72 | l/h |
| Lowest fuel consumption ³ | 208 | g/kWh |

The engine illustrated may not entirely be identical to production standard engine

Engine description

| | |
|-----------------------|--|
| Application | Main propulsion diesel for ships with fixed pitch propeller |
| Operation profile | Unlimited operating hours per year at a maximum of 100 % of time at full load |
| Construction | Four-stroke diesel with exhaust after-treatment system, direct injection, SAE 1 flywheel housing |
| Cylinders | 6 cylinders in line, wet replaceable cylinder liners |
| Air system | Single-stage turbocharger with charge air intercooler and wastegate |
| Cooling system | Seawater cooled by rubber impeller pump or two-circuit-cooling system for hull cooling |
| Oil system | Force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of the engine |
| Fuel system | Common Rail injection system with EDC17 control, fuel according to DIN EN 590, GTL/HVO |
| Auxiliary PTO | PTO for hydraulic pump 16 cm ² |
| Alternator | Three-phase generator with rectifier and transistorized governor, 28V, 120A |
| Starting system | Solenoid-operated electric starter, 24V, 5.5kW |
| Service | Oil change interval 600 operating hours, average TBO 18.000 operating hours |
| Classification | Engine according to classification requirements available => see MAN Marine Configurator |
| Exhaust status | IMO Tier II, RCD 2013/53/EC, EPA Tier 3 commercial |

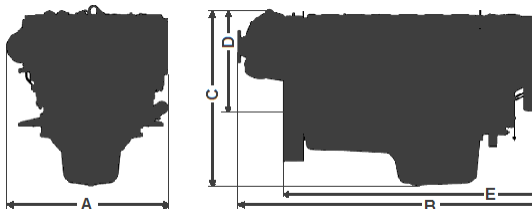
¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve

D2676LE484

| | |
|----------------------------|---------|
| A - overall width..... | 986 mm |
| B - overall length..... | 1795 mm |
| C - overall height..... | 1096 mm |
| D - above crank shaft.... | 674 mm |
| E - length to flywheel.... | 1527 mm |
| Engine weight (dry)..... | 1251 kg |



Combustion parameters ¹

| | |
|-------------------------------|------------------------|
| Intake air temperature (max.) | 45 °C |
| Intake air vacuum (min/max) | 30/60 mbar |
| Intake air volume flow | 1380 m ³ /h |

| | |
|---------------------------------|------------------------|
| Exhaust gas temperature | 448 °C |
| Exhaust gas volume flow | 3400 m ³ /h |
| Exhaust gas mass flow | 1620 kg/h |
| Exhaust back pressure (min/max) | 20/80 mbar |

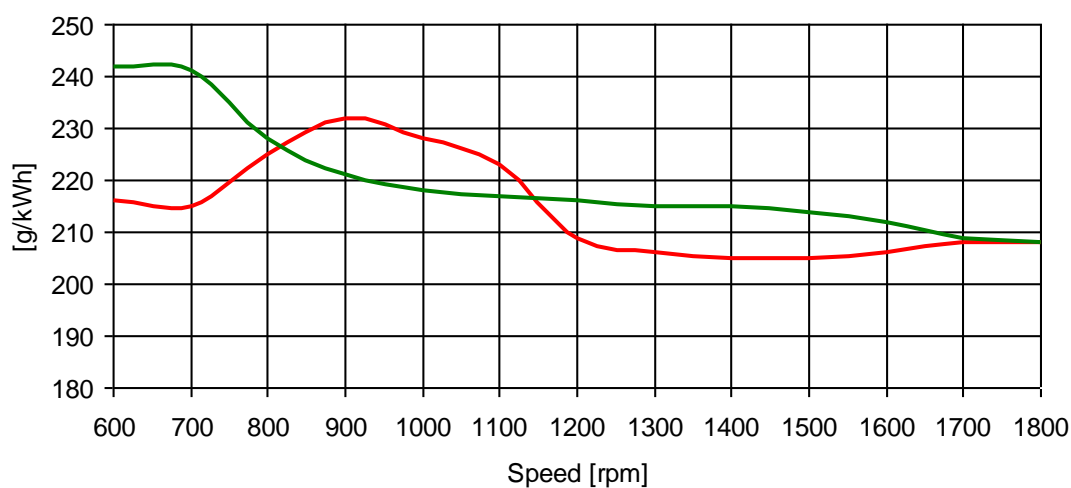
Heat balance ¹

| | |
|--------------------|--------|
| Exhaust gas heat | 210 kW |
| Cooling water heat | 140 kW |
| Intercooler heat | 60 kW |
| Radiation heat | 26 kW |

Noise emission (sound power) ¹

| | |
|----------------------------|-------------|
| Engine surface noise (Lwa) | 111,7 dB(A) |
| Free exhaust noise (Lwa) | 104,6 dB(A) |

Specific fuel consumption²



— full load curve — propeller curve

< The rated power is based on reference conditions according to ISO 3046-1 (2002) >

< Intake air temperature, max. 45°C | sea water temperature, max. 32°C >

< Barometric pressure 1000 mbar | air humidity 60% >

< Exponent for propeller curve 3 >

< Engine specifications are subjected to change without prior notice >

¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve